

Title (en)
METHOD FOR COORDINATING INTER-CELL INTERFERENCE IN HETEROGENEOUS NETWORK AND HETEROGENEOUS NETWORK

Title (de)
VERFAHREN ZUR KOORDINATION DER ZWISCHENZELLENINTERFERENZ IN EINEM HETEROGENEN NETZWERK UND HETEROGENES NETZWERKS

Title (fr)
PROCÉDÉ POUR COORDONNER DES INTERFÉRENCES ENTRE CELLULES DANS UN RÉSEAU HÉTÉROGÈNE, ET RÉSEAU HÉTÉROGÈNE CORRESPONDANT

Publication
EP 2733975 B1 20180321 (EN)

Application
EP 12811937 A 20120709

Priority

- CN 201110204385 A 20110713
- CN 201110218060 A 20110726
- CN 201110265826 A 20110826
- JP 2012067512 W 20120709

Abstract (en)
[origin: EP2733975A1] Provided are a method for coordinating inter-cell interference in a heterogeneous network (HetNet) and the heterogeneous network. The method includes: forming M normal base stations and low-power nodes within coverage of the respective normal base stations in the heterogeneous network into a coordinated group; combining mute/non-mute states of bandwidths of the M normal base stations to obtain a plurality of states of the coordinated group; a user of each of the normal base stations feeding at least one first CQI back to the normal base station; a user of each of the low-power nodes feeding one or more second CQIs back to the low-power node; using the first CQI and the second CQIs as a basis to make capacity estimation of the coordinated group; and setting the mute/non-mute states of the bandwidths of the M normal base stations in accordance with a state of the coordinated group corresponding to an optimal system capacity so as to perform data transmission. In the method for coordinating interference provided by the present invention, M transmission points each including one or more normal base stations and low-power nodes covered by the respective normal base stations can be formed into a coordinated group, thereby extending processing for the normal base stations up to all the transmission points in the coordinated group.

IPC 8 full level
H04W 16/02 (2009.01); **H04W 16/32** (2009.01); **H04W 24/10** (2009.01); **H04W 72/54** (2023.01)

CPC (source: EP US)
H04W 16/14 (2013.01 - EP US); **H04W 24/02** (2013.01 - US); **H04W 72/541** (2023.01 - EP US); **H04W 72/27** (2023.01 - EP US); **Y02D 30/70** (2020.08 - EP US)

Cited by
WO2016076766A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2733975 A1 20140521; **EP 2733975 A4 20151209**; **EP 2733975 B1 20180321**; CN 102883330 A 20130116; CN 102883330 B 20170531; JP 5654128 B2 20150114; JP WO2013008794 A1 20150223; US 2014169275 A1 20140619; US 9307423 B2 20160405; WO 2013008794 A1 20130117

DOCDB simple family (application)
EP 12811937 A 20120709; CN 201110265826 A 20110826; JP 2012067512 W 20120709; JP 2013523944 A 20120709; US 201214131370 A 20120709